

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/579,596
Source: IFWP
Date Processed by STIC: 5-26-06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/579,596

TIME: 08:12:41

Input Set : A:\21351YP SEQLIST.TXT

Output Set: N:\CRF4\05262006\J579596.raw

```

4 <110> APPLICANT: Freedman, Leonard P.
5     Glantschnig, Helmut
6     Harada, Shun-ichi
7     Hess, John W.
9 <120> TITLE OF INVENTION: CYNOMOLGUS MONKEY DICKKOPF-4,
10     NUCLEOTIDES ENCODING SAME, AND USES THEREOF
13 <130> FILE REFERENCE: 21351YP
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/579,596
C--> 15 <141> CURRENT FILING DATE: 2006-05-17
15 <150> PRIOR APPLICATION NUMBER: PCT/US2004/037799
16 <151> PRIOR FILING DATE: 2004-11-12
18 <150> PRIOR APPLICATION NUMBER: 60/520,569
19 <151> PRIOR FILING DATE: 2003-11-17
21 <160> NUMBER OF SEQ ID NOS: 13
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 675
27 <212> TYPE: DNA
28 <213> ORGANISM: MACACA FASCICULARIS
30 <400> SEQUENCE: 1
31 atggcgccg cgcgtctgct gggactgagc tggctctgct ctcccctggg agctctgggc 60
32 ctggacttca acaacatcag gagctctgct gacctgcttg gggcccgaa gggctcacag 120
33 tgcctgtctg acacagactg caataccaga aagttctgcc tccagtcca caatgagaag 180
34 ccgttctgtg ctacatgtcg tgggttgcag aggaggtgcc agcgagatgc catgtgctgc 240
35 cctgggacac tctgcatgaa tgatgtttgt actacgatgg aagacgcaac cccaaaattg 300
36 gaaaggcagc ttgatgagca agatggcaca catgcagaag taacaactgg gcacccagtc 360
37 caggaaaacc aaccaagag gaagccaagt attaagaaat cacaaggcag gaagggacaa 420
38 gagggagaaa gttgtctgag aacttttgac tgtggccctg gactttgctg tgctcgtcat 480
39 ttttggacga aaatttgtaa gccagtcctt ttggaggagc aggtctgctc caggagaggg 540
40 cataaagaca ctgctcaagc tccagaaatc ttccagcggt gcgactgtgg ccccgacta 600
41 ctgtgtcgaa gccaactgac cagcaatcag cagcatgcac ggttacgagt atgccaaaaa 660
42 atagaaaagc tataa                                     675
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 224
46 <212> TYPE: PRT
47 <213> ORGANISM: MACACA FASCICULARIS
49 <400> SEQUENCE: 2
50 Met Ala Ala Ala Val Leu Leu Gly Leu Ser Trp Leu Cys Ser Pro Leu
51 1           5           10           15
52 Gly Ala Leu Val Leu Asp Phe Asn Asn Ile Arg Ser Ser Ala Asp Leu
53           20           25           30
54 Leu Gly Ala Arg Lys Gly Ser Gln Cys Leu Ser Asp Thr Asp Cys Asn
55           35           40           45

```

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/579,596

TIME: 08:12:41

Input Set : A:\21351YP SEQLIST.TXT

Output Set: N:\CRF4\05262006\J579596.raw

```

56 Thr Arg Lys Phe Cys Leu Gln Ser His Asn Glu Lys Pro Phe Cys Ala
57      50                      55                      60
58 Thr Cys Arg Gly Leu Gln Arg Arg Cys Gln Arg Asp Ala Met Cys Cys
59 65                      70                      75                      80
60 Pro Gly Thr Leu Cys Met Asn Asp Val Cys Thr Thr Met Glu Asp Ala
61                      85                      90                      95
62 Thr Pro Lys Leu Glu Arg Gln Leu Asp Glu Gln Asp Gly Thr His Ala
63                      100                      105                      110
64 Glu Val Thr Thr Gly His Pro Val Gln Glu Asn Gln Pro Lys Arg Lys
65                      115                      120                      125
66 Pro Ser Ile Lys Lys Ser Gln Gly Arg Lys Gly Gln Glu Gly Glu Ser
67      130                      135                      140
68 Cys Leu Arg Thr Phe Asp Cys Gly Pro Gly Leu Cys Cys Ala Arg His
69 145                      150                      155                      160
70 Phe Trp Thr Lys Ile Cys Lys Pro Val Leu Leu Glu Gly Gln Val Cys
71                      165                      170                      175
72 Ser Arg Arg Gly His Lys Asp Thr Ala Gln Ala Pro Glu Ile Phe Gln
73      180                      185                      190
74 Arg Cys Asp Cys Gly Pro Gly Leu Cys Arg Ser Gln Leu Thr Ser
75      195                      200                      205
76 Asn Gln Gln His Ala Arg Leu Arg Val Cys Gln Lys Ile Glu Lys Leu
77      210                      215                      220
80 <210> SEQ ID NO: 3
81 <211> LENGTH: 841
82 <212> TYPE: DNA
83 <213> ORGANISM: HOMO SAPIENS
85 <400> SEQUENCE: 3
86 gcacgagaga cgacgtgctg agctgccagc ttagtggaag ctctgctctg ggtggagagc 60
87 agcctcgctt tggtagcgca cagtgtctggg accctccagg agccccggga ttgaaggatg 120
88 gtggcgcccg tcctgtctggg gctgagctgg ctctgctctc ccctgggagc tctggtcctg 180
89 gacttcaaca acatcaggag ctctgtctgac ctgcatgggg cccggaaggg ctcacagtgc 240
90 ctgtctgaca cggactgcaa taccagaaag ttctgcctcc agccccgcga tgagaagccg 300
91 ttctgtgcta catgtcgtgg gttgctggagg aggtgccagc gagatgccat gtgctgccct 360
92 gggacactct gtgtgaacga tgtttgtact acgatggaag atgcaacccc aatattagaa 420
93 aggcagcttg atgagcaaga tggcacacat gcagaaggaa caactgggca cccagtccag 480
94 gaaaaccaac caaaaggaa gccaaagtatt aagaaatcac aaggcaggaa gggacaagag 540
95 ggagaaagtt gtctgagaac ttttgactgt ggccctggac tttgctgtgc tcgtcatttt 600
96 tggacgaaaa tttgtaagcc agtccttttg gagggacagg tctgctccag aagagggcat 660
97 aaagacactg ctcaagctcc agaaatcttc cagcgttgcg actgtggccc tggactactg 720
98 tgtcgaagcc aattgaccag caatcggcag catgctcgat taagagtatg ccaaaaaata 780
99 gaaaagctat aaatatttca aaataaagaa gaatccacat tgcaaaaaaa aaaaaaaaaa 840
100 a 841
102 <210> SEQ ID NO: 4
103 <211> LENGTH: 224
104 <212> TYPE: PRT
105 <213> ORGANISM: HOMO SAPIENS
107 <400> SEQUENCE: 4
108 Met Val Ala Ala Val Leu Leu Gly Leu Ser Trp Leu Cys Ser Pro Leu
109 1 5 10 15

```

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/579,596

TIME: 08:12:41

Input Set : A:\21351YP SEQLIST.TXT

Output Set: N:\CRF4\05262006\J579596.raw

```

110 Gly Ala Leu Val Leu Asp Phe Asn Asn Ile Arg Ser Ser Ala Asp Leu
111           20                25                30
112 His Gly Ala Arg Lys Gly Ser Gln Cys Leu Ser Asp Thr Asp Cys Asn
113           35                40                45
114 Thr Arg Lys Phe Cys Leu Gln Pro Arg Asp Glu Lys Pro Phe Cys Ala
115           50                55                60
116 Thr Cys Arg Gly Leu Arg Arg Arg Cys Gln Arg Asp Ala Met Cys Cys
117 65           70                75                80
118 Pro Gly Thr Leu Cys Val Asn Asp Val Cys Thr Thr Met Glu Asp Ala
119           85                90                95
120 Thr Pro Ile Leu Glu Arg Gln Leu Asp Glu Gln Asp Gly Thr His Ala
121           100               105               110
122 Glu Gly Thr Thr Gly His Pro Val Gln Glu Asn Gln Pro Lys Arg Lys
123           115               120               125
124 Pro Ser Ile Lys Lys Ser Gln Gly Arg Lys Gly Gln Glu Gly Glu Ser
125           130               135               140
126 Cys Leu Arg Thr Phe Asp Cys Gly Pro Gly Leu Cys Cys Ala Arg His
127 145           150               155               160
128 Phe Trp Thr Lys Ile Cys Lys Pro Val Leu Leu Glu Gly Gln Val Cys
129           165               170               175
130 Ser Arg Arg Gly His Lys Asp Thr Ala Gln Ala Pro Glu Ile Phe Gln
131           180               185               190
132 Arg Cys Asp Cys Gly Pro Gly Leu Leu Cys Arg Ser Gln Leu Thr Ser
133           195               200               205
134 Asn Arg Gln His Ala Arg Leu Arg Val Cys Gln Lys Ile Glu Lys Leu
135           210               215               220
138 <210> SEQ ID NO: 5
139 <211> LENGTH: 221
140 <212> TYPE: PRT
141 <213> ORGANISM: MUS MUSCULUS
143 <400> SEQUENCE: 5
144 Met Val Leu Val Thr Leu Leu Gly Leu Ser Trp Phe Cys Ser Pro Leu
145 1           5                10                15
146 Ala Ala Leu Val Leu Asp Phe Asn Asn Ile Lys Ser Ser Ala Asp Val
147           20                25                30
148 Gln Gly Ala Gly Lys Gly Ser Leu Cys Ala Ser Asp Arg Asp Cys Ser
149           35                40                45
150 Glu Gly Lys Phe Cys Leu Ala Phe His Asp Glu Arg Ser Phe Cys Ala
151           50                55                60
152 Thr Cys Arg Arg Val Arg Arg Arg Cys Gln Arg Ser Ala Val Cys Cys
153 65           70                75                80
154 Pro Gly Thr Val Cys Val Asn Asp Val Cys Thr Ala Val Glu Asp Thr
155           85                90                95
156 Arg Pro Val Met Asp Arg Asn Thr Asp Gly Gln Asp Gly Ala Tyr Ala
157           100               105               110
158 Glu Gly Thr Thr Lys Trp Pro Ala Glu Glu Asn Arg Pro Gln Gly Lys
159           115               120               125
160 Pro Ser Thr Lys Lys Ser Gln Ser Ser Lys Gly Gln Glu Gly Glu Ser
161           130               135               140

```

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/579,596

TIME: 08:12:41

Input Set : A:\21351YP SEQLIST.TXT

Output Set: N:\CRF4\05262006\J579596.raw

```

162 Cys Leu Arg Thr Ser Asp Cys Gly Pro Gly Leu Cys Cys Ala Arg His
163 145                150                155                160
164 Phe Trp Thr Lys Ile Cys Lys Pro Val Leu Arg Glu Gly Gln Val Cys
165                165                170                175
166 Ser Arg Arg Gly His Lys Asp Thr Ala Gln Ala Pro Glu Ile Phe Gln
167                180                185                190
168 Arg Cys Asp Cys Gly Pro Gly Leu Thr Cys Arg Ser Gln Val Thr Ser
169                195                200                205
170 Asn Arg Gln His Ser Arg Leu Arg Val Cys Gln Arg Ile
171                210                215                220
174 <210> SEQ ID NO: 6
175 <211> LENGTH: 24
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: F2 PRIMER
182 <400> SEQUENCE: 6
183 caggagcccc gggattgaag gatg                                24
185 <210> SEQ ID NO: 7
186 <211> LENGTH: 38
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: R2 PRIMER
193 <400> SEQUENCE: 7
194 gcaatgtgga ttcttcttta ttttgaaata tttatagc                38
196 <210> SEQ ID NO: 8
197 <211> LENGTH: 31
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: F PRIMER
204 <400> SEQUENCE: 8
205 gcgaattcac catggcgggcg gccgtcctgc t                        31
207 <210> SEQ ID NO: 9
208 <211> LENGTH: 37
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: FF PRIMER
215 <400> SEQUENCE: 9
216 gcgaattcac catggcgggcg gccgtcctgc tgggact                37
218 <210> SEQ ID NO: 10
219 <211> LENGTH: 42
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: R PRIMER
226 <400> SEQUENCE: 10

```

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/579,596

TIME: 08:12:41

Input Set : A:\21351YP SEQLIST.TXT

Output Set: N:\CRF4\05262006\J579596.raw

```
227 gcgaattcta gcttttctat tttttggcat actcgtaacc gt 42
229 <210> SEQ ID NO: 11
230 <211> LENGTH: 47
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: RR PRIMER
237 <400> SEQUENCE: 11
238 gcgaattcta gcttttctat tttttggcat actcgtaacc gtgcatg 47
240 <210> SEQ ID NO: 12
241 <211> LENGTH: 22
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Fseq PRIMER
248 <400> SEQUENCE: 12
249 gggacactct gcatgaatga tg 22
251 <210> SEQ ID NO: 13
252 <211> LENGTH: 21
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Rseq PRIMER
259 <400> SEQUENCE: 13
260 tgccatcttg ctcatcaagc t 21
```

VERIFICATION SUMMARY

DATE: 05/26/2006

PATENT APPLICATION: US/10/579,596

TIME: 08:12:42

Input Set : A:\21351YP SEQLIST.TXT

Output Set: N:\CRF4\05262006\J579596.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date